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PROBLEM TO BE SOLVED: To prevent sticking of magnesium ammonium phosphate(MAP) particles, in a state that they settled, since the MAP particles are sufficiently fluidized, even though the MAP particles grow to larger sizes.

SOLUTION: The reaction tower 1 forms a storage part 11 with a small diameter cylindrical shape at the lower part, and the upper side of the storage part 11 has a taper part 12 with the diameter enlarged toward the upper direction and the upper side of the taper part 12 is a large diameter part 13 with a large diameter. An introduction pipe 2 of raw water is connected to the taper part 12, and a feed tube 3 of magnesium salt solution such as MgCl₂ and a feed pipe 4 an alkali chemical such as NaOH, are connected to the lower part of the large diameter part 13. An inflow side of a circulation piping 5 is connected to the upper part of the reaction tower 1, and an outflow side of the circulation piping 5 is connected to the lower part of the storage part. An overflow dam 8 is provided on uppermost part of the reaction tower 1, and a takeout piping 9 for treated water is connected to the overflow dam 8.

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